

SECRET

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R 131901Z SEP 68
 FM NPIC WASHDC
 TO RUEOJFA/DIA (DIAXX-2)
 RUEOJFA/JCS (JRC)
 RUEFHQA/HQ USAF FOR AFNICAD & AFRDRP
 RUCSAAA/SAC (DIR)
 RUWMDDA/9 SRW (DCI)
 RUHHHQA/CINCPAC
 RUHHBRA/CINCPACFLT
 RUHHABA/CINCPACAF (DIR)
 RUHHHGA/CINCHUSARPAC

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RUCIFGA/AERONAUTICAL SYSTEMS DIV (ASZB), WPAFB OHIO

BT

S E C R E T CITE NPIC 4579.

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SUBJECT: EVALUATION OF GIANT SCALE MISSION S-045, FLOWN 18 AUGUST
 1968

1. A TOTAL OF TWENTY-FIVE GIANT SCALE MISSIONS HAVE BEEN
 EVALUATED. AN ANALYSIS OF THESE EVALUATIONS INDICATES CERTAIN
 INHERENT REPETITIVE ANOMALIES THAT OCCUR ON ALL MISSIONS. IT IS

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ASSUMED THAT THESE ANOMALIES CANNOT BE CORRECTED; THEREFORE, THEY
 WILL NOT BE REPORTED IN FUTURE EVALUATIONS UNLESS A CHANGE IS
 NOTED. THESE ANOMALIES ARE:

A. THE OPERATIONAL OBJECTIVE CAMERA MATERIAL

(1) THE TIMING DOTS THAT ARE IMAGED 0.5 TO 0.6 INCHES
 AFTER THE START OF SCAN AND EXTEND THE SAME DISTANCE AFTER
 THE END OF SCAN.

(2) THE DATA BLOCKS ENCROACHING INTO THE FORMATS.

(3) THE RAIL SCRATCHES ALONG BOTH EDGES OF THE FILM.

(4) THE FIRST 0.5 INCHES OF SCAN THAT IS SMEARED AND
 APPEARS OUT OF FOCUS.

B. THE TECHNICAL OBJECTIVE CAMERA MATERIAL

(1) THE MINUS DENSITY STREAKS ASSOCIATED WITH THE PLATEN
 CONFIGURATION AND THE RANDOM MINUS DENSITY STREAKS PARRALLEL
 TO THE MAJOR AXIS.

(2) THE INTERMITTENT FOG ASSOCIATED WITH STATIC DISCHARGES
 THAT ARE USUALLY PRESENT ALONG BOTH EDGES OF THE NEGATIVES.

(3) THE BANDING ACROSS THE MINOR AXIS OF THE FILM THAT
 APPEARS TO BE ASSOCIATED WITH EITHER UNEVEN SHUTTER MOVEMENT
 OR CAMERA MOUNT VIBRATIONS.

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2. OTHER DATA OF MINOR IMPORTANCE TO THE QUALITY OF THE PHOTO-
 GRAPHY WILL ALSO BE DELETED FROM THE EVALUATION. THIS INCLUDES:

A. LOCATION OF CAMERA OFF/ONS.

B. LOCATION OF MANUFACTURING AND PROCESSING SPLICES.

C. LAST TITLED FRAME NUMBERS.

D. THE BIAS THAT EXISTS BETWEEN THE TITLED FRAME NUMBERS AND
 THE EVENTS COUNTER.

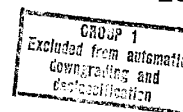
E. AN EXPLANATION OF THE GROUND RESOLUTION.

F. THE FACT THAT THE VEHICLE EMPLOYED THE USUAL SENSORS AND
 THAT THEY WERE PROCESSED BY THE

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3. NPIC WILL REPORT ON ANY UNUSUAL OCCURRENCE EVEN THOUGH THEY FALL IN THE ABOVE CATEGORIES. IT IS FELT THAT A STREAMLINED REPORT WILL PROVIDE THE INFORMATION REQUIRED BY THE RECIPIENTS IN A MORE CONCISE FORMAT. THE FOLLOWING IS THE NEW FORMAT. NPIC WILL RESPOND TO SUGGESTED CHANGES, ADDITIONS OR RECOMMENDED DELETIONS THAT WILL IMPROVE OUR REPORTING PROCEDURES AND PROVIDE MEANINGFUL INFORMATION TO THE CUSTOMER.

4. QUALITY SUMMARY, MISSION S-045. THIS MISSION PROVIDES IMAGERY COMPARABLE TO THE RECENT GIANT SCALE MISSIONS. INTERPRETATION SUITABILITY IS FAIR TO GOOD COMMENSURATE WITH CLOUDS AND HAZE OVER THE

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TARGET AREAS. CLOUDS OBSCURE OR DEGRADE 65 PERCENT OF THE ENTIRE MISSION. EMPIRICAL GROUND RESOLUTION ESTIMATES OF THE BEST IMAGERY AT OPERATIONAL ALTITUDES ARE AS FOLLOWS:

- A. LEFT TECHNICAL OBJECTIVE CAMERA 3.0 FEET
- B. RIGHT TECHNICAL OBJECTIVE CAMERA 3.0 FEET
- C. LEFT OPERATIONAL OBJECTIVE CAMERA 3.5 FEET
- D. RIGHT OPERATIONAL OBJECTIVE CAMERA 3.5 FEET
- 5. ANALYSIS OF THE TECHNICAL OBJECTIVE CAMERAS
 - A. COMMENTS APPLICABLE TO BOTH CAMERAS
 - (1) NO UNUSUAL ANOMALIES.
 - B. LEFT TECHNICAL OBJECTIVE CAMERA (S/N 64-07)
 - (1) A REPETITIVE PLUS DENSITY PATTERN, APPARENTLY ASSOCIATED WITH FOREIGN MATTER ON A ROLLER, CAN BE DETECTED INTERMITTENTLY ON 20 PERCENT OF THE FRAMES BETWEEN FRAMES 618 AND 809.
 - C. RIGHT TECHNICAL OBJECTIVE CAMERA (S/N 64-08)
 - (1) NO UNUSUAL ANOMALIES.
- 6. ANALYSIS OF THE OPERATIONAL OBJECTIVE CAMERAS
 - A. COMMENTS APPLICABLE TO BOTH CAMERAS.
 - (1) NO UNUSUAL ANOMALIES.

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B. LEFT OPERATIONAL OBJECTIVE CAMERA (S/N 40/27)

- (1) THE DENSITY AT THE BEGINNING OF SCAN IS SOMEWHAT REDUCED. THIS MAY BE CAUSED BY AN OBSTRUCTION.

C. RIGHT OPERATIONAL OBJECTIVE CAMERA (S/N 40/34)

- (1) THE FIRST 0.25 INCHES OF SCAN ARE SMEARED AND APPEAR OUT OF FOCUS. THIS IS THE FIRST TIME MATERIAL FROM THIS CAMERA HAS BEEN EVALUATED. THERE IS A NOTED IMPROVEMENT IN THE IMAGERY IN THE FIRST 0.5 INCHES OF SCAN IN THE MATERIAL FROM THIS CAMERA AS COMPARED TO THE MATERIAL FROM PREVIOUS CAMERAS EMPLOYED.

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-- END OF MESSAGE --